



Convey-All CST Wireless Seed Tender Remote Users Manual

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Safety Summary

The following general safety precautions must be observed during all phases of operation, service, and repair of this scale. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the scale. Intercomp assumes no liability for the customer's failure to comply with these requirements. **DO NOT SUBSTITUTE PARTS OR MODIFY SCALE**

Because of the danger of introducing hazards, do not substitute parts or perform any unauthorized modifications of the scale.

Notice

All rights reserved. The information contained in this publication is derived in part from proprietary and patent data of the Intercomp Corporation. This information has been prepared for the express purpose of assisting operating and maintenance personnel in the efficient use of the instrument described herein. Publication of this information does not convey any rights to use or reproduce it or to use it for any purpose other than in connection with the installation, operation, and maintenance of the equipment described herein. While every precaution has been taken in the preparation of this manual, Intercomp Corporation assumes no responsibility for damages resulting from the use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend largely upon the individual accuracy, skill, and caution. For this reason Intercomp Company is not able to guarantee the result of any procedure contained herein. Nor can they assume responsibility for any damage to property or injury to persons occasioned from the procedures. Persons engaging the procedures do so entirely at their own risk.

Warranty

INTERCOMP CORPORATION (hereafter called "the company") warrants the products which this document accompanies to be free of defects in materials and workmanship, and to operate according to design specifications for a period of one (1) year after receipt by the original purchaser. After authorized return to the company at the purchaser's expense, the company shall evaluate any returned equipment under warranty claim, and shall make such repairs or replacements as may be judged necessary, in as expeditious a manner as possible.

IN THE EVENT that the company determines the claim to be made as a result of improper use, abuse, modification, shipping damage, or other factors beyond the reasonable control of the company, the company will advise the purchaser of the estimated repair costs. The company makes no warranty other than that contained in this statement. No agent other than an executive officer of Intercomp Corporation is empowered to modify in any manner this statement of warranty.

Front Panel Controls



On/Off (RED Power Symbol Key)

Cycles power to the STR remote when pressed. Press and hold to power up remote display.

Zero

Zero the scale when there is no load applied.

1. Press '0' (ZERO) (Key to the left of the UP Arrow key)
2. Press the UP Arrow key to toggle 'NO' to 'YES'
3. Press the 'SETUP' key to confirm Zeroing the scale
4. Display value will read "0".
5. Tender is now ready for loading with seed.

UP, DOWN, LEFT keys

When entering a number, use these keys to edit the value.

1. Press UP or DOWN Arrow keys to change the value of the active digit.
2. Press LEFT Arrow key to change which digit is being edited.

GROSS (Up Arrow)

Press to view the GROSS weight.

NET (Down Arrow)

Press to view the NET weight. The remote will only switch to NET weight if a TARE has been set and saved.

TARE (Left Arrow)

Press to view and set the TARE weight.

1. Press the UP or DOWN Arrow keys to change the value of the active digit.
2. Press LEFT Arrow key to change which digit is being edited.
3. Press SETUP to accept.
4. Press ZERO and TARE together to clear a saved TARE weight.

SETUP

Press to view and preset a seed dispense weight amount and initialize the "Automatic Dispense" mode. Also used to "Accept" or "Change" Menu Settings when pressed together with the "0"-ZERO key to access User Menu Options listed on Page 6.

Adjust LCD display contrast

While holding the LEFT (Arrow) key, repeatedly press UP or DOWN (Arrow) keys to adjust the contrast up or down. **Brighter** = Hold LEFT Arrow key and repeatedly press UP Arrow key. **Lighter** = Hold LEFT Arrow key and repeatedly press DOWN Arrow key.

GATES

SELECT: Toggle key to choose the Gate Number to be Opened or Closed and will be displayed on line two of the STR remote LCD display as (ie. "GATE <1>").

CLOSE: Closes gate number selected and displayed on LCD display screen of the STR remote.

OPEN: Opens gate number selected and displayed on LCD display screen of the STR remote.

LIGHTS

Press to turn CST tender lights ON and press again to turn lights OFF.

CONVEYOR

LEFT "<" OR RIGHT ">": Swings Conveyor Left or Right.

UP OR DOWN: Lowers or Raises Conveyor.

BELT (ON/OFF): Starts AND Stops Conveyor Belt. Also initiates 'Auto Dispense' if programmed for use.

FOLD OR UNFOLD: Folds or Unfolds Conveyor

SHUTTLE LEFT OR RIGHT: Shuttles conveyor open or closed at the rear of the CST tender.

BIN (Unlabeled/Hidden Key below the SETUP key)

Used for setting individual BIN weights and BIN 'Auto Dispense' Mode.

User Menu

Press "ZERO" and "SETUP" keys together simultaneously to access the User menu.

- Press UP or DOWN ARROW keys to scroll through the different menu options.
- To edit (change) any setting, press SETUP while viewing that particular setting. Then use the arrow keys to edit the setting. Then press SETUP to accept and save the new value.
- When editing menu options without numerical values (ie UNITS or BACKLIGHT), Press SETUP to change, or edit, until desired setting is viewed. The new value is saved immediately.
- Exit the user menu by pressing "ZERO" and "SETUP" keys together simultaneously and return to GROSS, NET, or BIN Weight mode.

Menu option	Description	Default
PREACT WGT	This setting compensates for the seed that is still in-flight as the conveyor is stopped or while a door/gate is being closed at the end of an Auto Dispense. Example: If it is observed that the final dispense weights are overshooting by 10 lbs, increase the preact weight setting by 10 lbs. 0-999 lbs. <u>(NOTE: See Page 8 for Adjustment)</u>	10 lb
# OF BINS	Enter # of Bins to be used during dispense Bin Mode	00
RPM UP TIME	Adjust RPM Throttle Up/Open Time in Seconds	5
AUTO OFF	Remote will turn off after 1-240 minutes with no key presses. 0=no auto off.	0
BACKLIGHT	OFF (always off) 5sec (stays on for 5 sec after any key press) 1min (stays on for 1 minute after any key press) ON (always on)	OFF
RADIO SETTING*	Enter Channel (1-12), PAN ID (1-65535), and Encryption key (1-65535). Sets these to itself and wireless modules. NOTE: Radio Settings are preset at Intercomp Factory. Please contact Intercomp Service (See Page 14) for radio setting changes when using multiple seed tenders in one field at the same time.	Factory set
UNITS	lb or kg	lb
AVG RATE	Higher numbers will average more readings, resulting in a more stable but slower responding display. 1-120.	6
CAL ENABLE	Allows entry into cal strap protected settings. Enter '477' to enable editing the protected settings. If this is left 'OFF', the features [CALIBRATION, GRAD, AZT, RAW COUNTS, and DEFAULT CPU] are not editable.	OFF

*Note: When setting radios, cycle power to the wireless J-box before hitting the PROG button.

Automatic Dispense Mode

'Auto-dispense' may be used to dispense seed and automatically shut down the conveyor when a preset dispense weight is reached, provided the seed tender has been configured by the tender manufacturer with a wireless remote system compatible to the Intercomp seed tender remote. Please note that not all wireless remote systems are compatible with the Intercomp seed tender remote to perform this function! Pressing a predetermined key on the Intercomp wireless seed tender remote activates a latching/momentary circuit in the compatible wireless receiver which automatically controls the auger/conveyor to dispense seed into the planter. First, the user enters a preset seed weight to be dispensed into the planter. Then pressing the **[BELT]** key will automatically initiate the 'Auto Dispense' sequence. NOTE: Flashing and alternating (X)-(+) symbols, shown on the display, indicate the 'Auto Dispense' sequence has been activated. This involves a simulated 'press' to throttle up the auger/conveyor, and monitoring the weight to automatically throttle down the auger/conveyor once the preset dispense weight has been reached.

Setting Preset Dispense Weight and Automatic Dispense Mode:

1. Press SETUP Key.

2. Screen display shows:

```
DISP? 00400  
SETUP = ACCEPT
```

3. Enter a dispense weight: Press the UP and DOWN arrow keys to increment/decrement a digit, and press the LEFT arrow key to advance to the next digit. Press SETUP to save and enable Auto Dispense mode. To change a dispense weight, repeat this process.
4. The display returns to the standard weight screen (shown below), but now it is in 'Auto Dispense' mode and a second line displayed. 'D' indicates that 'Dispense' mode is ready to begin. The number in the lower left is the preset dispense weight entered by the user. The number on the lower right is the live display of how much weight is left to dispense. At this point, the Auto Dispense has not been started so both numbers will be the same.

```
GROSS 12500 lb  
D      400   400
```

User entered preset dispense weight

Amount left to be dispensed

5. Press **[BELT]** key to start the 'Auto Dispense' sequence. The conveyor will start, and at this point the 'dispensed' weight in the lower right of the display will become a live weight display and begin decreasing as product is dispensed.
6. As both the GROSS (Total) and 'dispensed' weights decrease, the indicator will monitor the weight looking for the point when the preset dispensed weight equals the PREACT weight: (See Page 6-User Menu and Page 8 for PREACT WGT Adjustment).

```
GROSS 12110 lb  
D      400   10 X
```

Note: 'X' alternates with '+' while dispensing.

7. When the decreasing dispense weight reaches this point, the auger/conveyor will stop. The indicator will continue to display the live dispensed weight until the [ZERO] key is pressed. NOTE: Pressing the [ZERO] key will exit dispense mode, clear the auto dispensed amount, and return to standard weight display mode.

8. To stop the 'Auto Dispense' sequence while in process of dispensing seed, without affecting the seed weight dispensed, simply press the **[BELT]** key to stop the auger/conveyor. To restart the 'Auto Dispense' sequence again, simply press the **[BELT]** key to restart the auger/conveyor.

Preact Weight

This setting compensates for the seed that is still in-flight as the auger/conveyor is stopped or while a door/gate is being closed at the end of an Auto Dispense. This value is adjustable in the Main Menu for the delay of the auger/conveyor to stop dispensing seed, and may need to be adjusted based upon chute size or length, gate time opening and closing, or seed type and weight. For seed tenders dispensing too much seed, increase the PRACT WEIGHT setting value by the overfill amount weight. For seed tenders dispensing too little seed, decrease the PRACT WEIGHT setting value by the under fill amount weight. Example: If it is observed that the final dispense weights are overshooting by 10lbs, increase the preact weight setting by 10 lbs. The numerical value is adjustable between 0-999-pounds.

NOTE: The factory default value setting is 10 lbs.

Adjusting PRACT Weight Value:

1. Press "SETUP" and "ZERO" keys together to enter the User Menu.
2. The display will show:

PREACT WGT: 010
SETUP = CHANGE
3. Press SETUP to change, or edit, the PRACT WEIGHT value. NOTE: If too much seed, increase PRACT value by overfill amount weight. If too little seed, decrease PRACT value by the under filled amount weight.
4. Enter the adjusted PRACT WEIGHT. Press the UP and DOWN arrow keys to increment/decrement a digit, and press the LEFT arrow key to advance to the next digit. Press SETUP to save the adjusted PRACT value.
5. Press "ZERO" and "SETUP" keys together again to return to the standard weight display, or 'Auto Dispense' weight display mode.

BIN Mode

The 'BIN' mode function may be used to set a preset individual 'BIN' weights for up to ten (10)-individual bins or seed boxes. The 'BIN' function offers the user the ability to 'Auto Dispense' a preset amount of seed from an individual 'BIN'; and know the remaining seed weight in each individual 'BIN' and the total GROSS weight. The 'Automatic Dispense' mode, described on Page 7, can be performed in either the 'BIN' or normal 'GROSS' weight mode. When operating in the 'BIN' mode, only the selected individual 'BIN' (number the user is shown in on the STR remote display) and 'TOTAL GROSS' weight values will change when dispensing seed. The remaining 'BIN' weight values do not change until the user selects a specific 'BIN' number.

Setting 'BIN' Number:

1. Press "SETUP" and "ZERO" keys together to enter the User Main Menu.
2. Press UP or DOWN ARROW Keys to Move within the User Menu until the following screen display is shown:

# OF BINS:	00
SETUP =	CHANGE

3. Press SETUP to change, or edit, the number of seed bins/boxes used on the tender.
4. Enter number of Bins, or seed boxes, used for the tender. Press the UP and DOWN arrow keys to increment/decrement a digit, and press the LEFT arrow key to advance to the next digit. Press SETUP to save the number of bins/seed boxes.
5. Press ZERO and SETUP keys together again to return to the standard weight display, or 'Auto Dispense' weight display mode.

Setting BIN Weights:

After completing Steps 1—5 (on page 9) to set the number of bins/seed boxes to be used on the seed tender, make sure the scale system is powered up by turning on the key switch for the CST tender. Prior to loading the tender with seed boxes or seed into bins, press the "ZERO" key to be sure the scale system is ZEROED and the weight display is reading "0". Once the individual bin/box seed weights are determined, complete the following to set up or edit each individual BIN weight:

1. Press the [BIN] key, **the unlabeled key located below the setup key**, to access the individual BIN mode. The display screen will be show:

BIN 1	0 lb
-------	------

2. Making sure you are in the correct BIN #, then Press, and HOLD, the [BIN] key for three (3)-seconds and release the HOLD on the [BIN] key once the following screen is displayed:

ENTER BIN WEIGHT

3. After releasing the HOLD on the [BIN] key, the display screen will show:

```
BIN 1:    00000
SETUP   = ACCEPT
```

4. Press the UP and DOWN ARROW keys to increment/decrement a digit, and press the LEFT ARROW key to advance to the next digit. Or press ZERO to clear the entry. Press SETUP to save or accept the weight for each BIN. The display screen will show the BIN number and individual BIN Weight entered by the user:

```
BIN 1:   2500 lb
```

5. To enter the BIN weights for the remaining BINS: Press the [BIN] key once to advance the menu to the desired BIN number (#). Then repeat steps 2—4.
6. Press the [BIN] key repeatedly to view programmed individual BIN weight(s) and/or (Total) GROSS weight for the entire seed tender.

Setting 'Auto Dispense' in BIN Mode Function:

1. From the correct BIN #, press the SETUP key.
2. Screen display shows:
3. Enter a dispense weight: Press the UP and DOWN arrow keys to increment/decrement a digit, and press the LEFT arrow key to advance to the next digit. Press SETUP to save and enable 'Auto Dispense' mode. To change a dispense weight, repeat this process.
4. The display returns to the BIN weight screen (shown below), but now it is in 'Auto Dispense' mode and there will be a second line displayed. 'D' indicates that 'Dispense' mode is ready to begin. The number in the lower left is the preset dispense weight entered by the user. The number on the lower right is the live display of how much weight is left to dispense. At this point, the Auto Dispense has not been started so both numbers will be the same:

```
DISP? 00100
SETUP = ACCEPT
```

```
BIN 1   2500 lb
D      100   100
```

User entered preset dispense weight Amount left to be dispensed

5. Press **[BELT]** key to start the 'Auto Dispense' sequence. The auger/conveyor will start, and at this point the dispensed weight in the lower right of the display will become a live weight display and begin decreasing as product is dispensed. NOTE: When a BIN # is selected, only the selected BIN weight and TOTAL GROSS weight values change. The other BIN weight values do not change until the correct BIN number is selected.

- As the BIN and Total GROSS 'dispensed' weights decrease, the indicator will monitor the weight looking for the point when the preset dispensed weight equals the Preact weight: (See Pages 6-'User Menu' AND 11-'Preact Weight' for Adjustment).

BIN 1	2500 lb
D 100	10X

Note: 'X' alternates with '+' while dispensing.

- When the decreasing dispense weight reaches this point, the auger/conveyor will stop. The indicator will continue to display the live dispensed weight until the [ZERO] key is pressed. NOTE: Pressing the [ZERO] key will exit dispense mode, clear the auto dispensed amount, and return to bin weight display mode shown below.

BIN 1:	2410 lb
--------	---------

- To 'Auto Dispense' from the same BIN number, simply press the [SETUP] key to accept the current dispense weight amount, or re-enter a new dispense weight value, and continue from Step 5.
- Press the [BIN] key, **the unlabeled key located below the setup key**, until the desired BIN number is displayed to dispense seed from and repeat steps 1-7 until completed.

Calibration

The Seed Tender Remote can calibrate or adjust scales connected to it. To calibrate (adjust) a connected scale complete the following:

1. Press the "SETUP" and the "ZERO" keys together, at the same time, to enter the main user menu.
2. Press the UP or DOWN ARROW key until reaching the 'CAL ENABLE' screen as shown:

```
CAL ENABLE: OFF
SETUP = CHANGE
```

3. Press the "SETUP" key to access the calibration menu.
4. Using the "UP or DOWN" ARROW keys to increment/decrement a digit, and the "LEFT ARROW" key to advance to the next digit, enter the code 477, then press "SETUP" to accept and view screen below:

```
CAL ENABLE: ON
SETUP = CHANGE
```

5. Press the "DOWN ARROW" key and the screen will show:

```
CALIBRATION
SETUP = CHANGE
```

6. Press the "SETUP" key to view the 'SCALE NUMBER' screen as shown:

```
SCALE NUMBER: 1
SETUP = ACCEPT
```

7. Using the "UP or DOWN" ARROW keys as described in the front panel control section, enter the scale number. NOTE: Scale number 1 is shown in example above, and is the default for most seed tender scale systems.
8. Press "SETUP" to accept the scale number and proceed to the 'CAL POINTS' screen view shown:

```
CAL POINTS: 01
SETUP = ACCEPT
```

9. Using the "UP or DOWN" ARROW keys, and "LEFT" ARROW key as described in the front panel control section, enter the number of calibration points you desire. (1 point is recommended). Press "SETUP" to accept and proceed to the 'CAPACITY' screen shown:

```
CAPACITY: 40000
SETUP = ACCEPT
```

10. Using the "UP, DOWN,, and LEFT" ARROW keys as described in the front panel control section, enter the scale 'CAPACITY' and proceed to load weight 'POINT 1' screen shown:

```
POINT 1: 00000
SETUP = ACCEPT
```

11. Load the scale with a known weight.
12. Using the "UP, DOWN, and LEFT" ARROW keys as described in the front panel control section, enter the weight of the applied load.
13. Once the applied load has stabilized, Press "SETUP" to accept the calibration. Press "SETUP" and "ZERO" together again to exit calibration and return to the standard weight display or 'Auto Dispense' weight display mode.
14. Process complete.

How to Contact Intercomp Service

Things to know and inform Intercomp's Service Department:

- The product is a wireless CST STR (Seed Tender Remote) scale system.
- Supply serial numbers of system and/or components. NOTE: The STR Wireless Remote (Shown in Photo on Page 4) serial numbers are located inside the battery cover of the remote. Remove the battery cover to locate the part number and serial number. Other system components may have part number and/or serial number tags applied to the individual component.
- Supply firmware version in the STR remote, if applicable. NOTE: Press and HOLD the RED Power Button, at the top of the remote, for the current firmware version installed in the STR Remote (ie. V1.14.40)
- When was the system purchased?
- Where was the system purchased?

For Intercomp Service call or fax:

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or fill out Service Support Form at :

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